

Missouri Department of Natural Resources



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: July 2, 2004

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, Missouri 65102, ATTN: Peter Goode, Professional Engineer. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by August 2, 2004 or received in our office by 5:00 p.m. on August 5, 2004. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.state.mo.us/wpscd/wpcp/homewpcp.htm>, or at the Department of Natural Resources, Water Protection Program, 205 Jefferson Street, P.O. Box 176, Jefferson City, Missouri 65102, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: July 2, 2004

Permit Number: MO-0021750

Southeast Regional Office

FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
East Prairie WWTF, Shelby Road, East Prairie, MO 63845	City of East Prairie, 219 N. Washington, East Prairie, MO 63845
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE
Lee Rowe Ditch (Class C), Sec. 30, T25N, R16E, Mississippi County	Domestic, reissue with modification to reflect recent construction

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0021750

Owner: City of East Prairie
Address: 219 North Washington, East Prairie, MO 63845

Continuing Authority: Same as above
Address: Same as above

Facility Name: East Prairie WWTF
Address: Shelby Road, East Prairie, MO 63845

Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 30, T25N, R16E, Mississippi County
Latitude/Longitude: +3646582/-08922059

Receiving Stream: Lee Rowe Ditch (C)
First Classified Stream and ID: Lee Rowe Ditch (C) (03137)
USGS Basin & Sub-watershed No.: (08020201-010003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - POTW - SIC #4952
Three cell aerated lagoon/sludge retained in lagoon.
Design population equivalent is 6,000.
Design flow is 600,000 gallons per day.
Actual flow is 400,000 gallons per day.
Design sludge production is 42 dry tons/year.
Actual sludge production is 28 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date
MO 780-0041 (10-93)

Jim Hull, Director of Staff, Clean Water Commission

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 2 of 3	
					PERMIT NUMBER MO-0021750	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅ **	mg/L		65	43	once/month	grab
Total Suspended Solids**	mg/L			70	once/month	grab
pH - Units	SU	*		***	once/month	grab
Ammonia as N	mg/L			*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR OILS IN EXCESS OF 100 MILLI LITERS PER MINUTE OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II, & III</u> STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** This facility is required to meet a removal efficiency of 65% or more.
- *** pH is measured in pH units and is not to be averaged. The pH is to be maintained above 6.0 pH units.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C) and (D), 304(b) (2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.

C. SPECIAL CONDITIONS (continued)

3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
- (1) One hundred micrograms per liter (100 µg/L) for arsenic and acrylonitrile;
 - (2) Two hundred micrograms per liter (200 µg/L) for cyanide and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established by the Director.
- (b) That they have begun or intend to begin to use or manufacture as an intermediate or final product or byproduct a toxic pollutant, which was not reported in the permit application.

5. Report as no-discharge when discharge does not occur during the report period.

6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
- (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

Facility Information

FACILITY NAME: East Prairie WWTP NPDES #: MO-0021750

FACILITY TYPE/DESCRIPTION: Three cell aerated lagoon.

ECOREGION: Mississippi Alluvial Basin 8- DIGIT 080203 COUNTY: Mississippi
HUC: Central Irregular Plains
Mississippi Alluvial Plains

LEGAL DESCRIPTION: NE ¼, SW ¼, Sec. 30, T25N, R16E LATITUDE: 3646532/-08921595

WATER QUALITY HISTORY: No apparent impact on basin inventory. Lagoon just upgraded to three cell aerated facility.

Outfall Characteristics

OUTFALL	DESIGN FLOW (CFS)	TREATMENT TYPE	RECEIVING WATERBODY	OTHER
001	0.93	Aerated lagoon	Lee Rowe Ditch	

Receiving Waterbody Information

WATERBODY	CLASS	7Q10 (CFS)	*DESIGNATED USES	OTHER CHARACTERISTICS
Lee Rowe Ditch	C	(1)	AQL, LWW	Completely channelized

*Cool Water Fishery (CLF), Cold Water Fishery (CDF), Irrigation (IRR), Industrial (IND), Boating & Canoeing (BTG), Drinking Water Supply (DWS), Whole Body Contact Recreation (WBC), Protection of Warmwater Aquatic Life and Human Health (AQL), Livestock & Wildlife Watering (LWW)

COMMENTS: (1) 7Q10 is not known. However, the Maple Slough Ditch, in an adjacent watershed, has a 7Q10 of 0.8 cfs. A comparison of the watershed areas for each of these ditches, both of which are entirely in Mississippi River alluvium, yields a ratio of 8:5. Therefore a 7Q10 of 0.5 cfs will be assumed here.

Lee Rowe Ditch empties into the Spillway Ditch about 6 miles below outfall. Spillway Ditch is on 303d list for habitat loss due to channelization. This discharge will not impact that impairment.

MIXING CONSIDERATIONS

All effluent limits for this facility are based on effluent regulations in 10 CSR 7.015, so mixing zone consideration is not necessary.

Permit Limits And Information

TMDL WATERSHED: ☒ Y W.L.A. STUDY CONDUCTED: ☐ N DISINFECTION REQUIRED: ☐ N DISINFECTION WAIVER: ☐ NA
(Y OR N) (Y OR N) (Y OR N) (Y, N, NA)

OUTFALL# 001

WET TEST (Y OR N): ☐ N FREQUENCY: _____ A.E.C. _____ LIMIT: _____

PARAMETER	MAXIMUM DAILY LIMIT	AVERAGE WEEKLY LIMIT	AVERAGE MONTHLY LIMIT	MONITORING FREQUENCY	SAMPLE TYPE
Flow	*		*	ONCE/MONTH	24 hr estimate
Biochemical		65	45	Once/month	Grab

Oxygen Demand (mg/l)					
Total Suspended Solids (mg/l)		110	70	Once/month	Grab
pH (units)	Above 6.0			Once/month	Grab
Ammonia Nitrogen	*		*	Once/month	Grab

* Monitor only

Receiving Water Monitoring Requirements

None

Derivation and Discussion of Limits

Biochemical Oxygen Demand: 10 CSR 7.015(8) (B) 3A.

Total Suspended Solids: Based on current permit, within parameters of 10 CSR 7.015(8) (B) 3A.

pH: 10 CSR 7.015(8) (B) 2

Reviewer: Jerry Croy

Date: April 13, 2004

Unit Chief: Richard J. Laux